

VIA FACSIMILE TRANSMISSION 1-571-273-8300

PATENT
Atty. Docket No. 17938 (AT 20958-02091)

WHAT IS CLAIMED IS:

1. (Currently Amended) An electrical contact, comprising:

first and second contact elements configured to be joined in an electrically common manner, said first and second contact elements having first and second base portions that are joined to first and second contact beams, respectively, said first and second base portions being spaced apart from one another, said first and second beams extending from said first and second base portions and projecting toward one another in an overlapping pattern, wherein said first and second contact beams carry equal currents in opposite directions such that electromagnetic fields about said first and second contact beams created by the currents offset and cancel out one another.

2. (Previously Presented) The electrical contact of Claim 1, wherein said first and second base portions are formed separate from one another and are configured to be joined to a common conductive path on a circuit board.

3. (Previously Presented) An electrical contact, comprising:

first and second contact elements configured to be joined in an electrically common manner, said first and second contact elements having first and second contact beams, respectively, that are oriented to project toward one another in an overlapping pattern, wherein said first contact beam includes at least a pair of contact beams formed with a common base portion, said second contact beam extending between said pair of contact beams in an overlapping manner without directly contacting one another.

4. (Currently Amended) ~~The electrical contact of Claim 1,~~ An electrical contact, comprising:

first and second contact elements configured to be joined in an electrically common manner, said first and second contact elements having first and second base portions that are joined to first and second contact beams, respectively, said first and second base portions being

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spaced apart from one another, said first and second beams extending from said first and second base portions and projecting toward one another in an overlapping pattern. wherein said first contact element includes a first pair of contact beams oriented in parallel planes and said second contact element includes a second pair of contact beams oriented in parallel planes, said first and second pairs of contact beams projecting toward one another in an alternating, interleaved order.

5. (Previously Presented) The electrical contact of Claim 1, wherein said first and second base portions are positioned proximate opposite ends of said contact along a longitudinal axis of said contact.

6. (Previously Presented) The electrical contact of Claim 1, wherein said first and second base portions are formed separate from one another.

7. (Currently Amended) The electrical contact of Claim 1, wherein said first and second contact beams are oriented to convey the equal currents along first and second paths that are aligned in substantially parallel vertical planes, said first and second paths being directed in opposite directions within said parallel planes.

8. (Withdrawn) The electrical contact of Claim 1, further comprising first and second sets of said first and second contact elements that are separately formed and configured to be separately joined to a circuit board.

9. (Previously Presented) The electrical contact of Claim 1, wherein said first and second base portions each have one of prongs and solder paddles configured to be joined to a circuit board.

10. (Withdrawn) The electrical contact of Claim 1, wherein said first and second contact elements each are U-shaped with upper and lower arms having outer ends that are configured to engage a circuit board to processor.

11. (Currently Amended) An electrical socket, comprising:

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a housing;

a plurality of contacts held in said housing, each contact including at least first and second contact elements configured to be joined in an electrically common manner, said first and second contact elements having first and second base portions that are joined to first and second contact beams, respectively, said first and second base portions being spaced apart from one another, said first and second beams extending from said first and second base portions and projecting toward one another in an overlapping pattern, wherein said first and second contact beams carry equal currents in opposite directions such that electromagnetic fields about said first and second contact beams created by the currents offset and cancel out one another.

12. (Previously Presented) The electrical socket of Claim 11, wherein said first and second base portions are formed separate from one another and are configured to be joined to a common conductive path on a circuit board.

13. (Previously Presented) An electrical socket, comprising:

a housing; and

a plurality of contacts held in said housing, each contact including at least first and second contact elements configured to be joined in an electrically common manner, said first and second contact elements having first and second contact beams, respectively, that are oriented to project toward one another in an overlapping pattern, wherein said first contact beam includes at least a pair of contact beams formed with a common base portion, said second contact beam extending between said pair of contact beams in an overlapping manner without directly contacting one another.

14. (Currently Amended) ~~The electrical socket of Claim 11,~~ An electrical contact, comprising:

first and second contact elements configured to be joined in an electrically common manner, said first and second contact elements having first and second base portions that are

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joined to first and second contact beams, respectively, said first and second base portions being spaced apart from one another, said first and second beams extending from said first and second base portions and projecting toward one another in an overlapping pattern. wherein said first contact element includes a first pair of contact beams oriented in parallel planes and said second contact element includes a second pair of contact beams oriented in parallel planes, said first and second pairs of contact beams projecting toward one another in an alternating, interleaved order.

15. (Previously Presented) The electrical socket of Claim 11, wherein said first and second base portions are positioned proximate opposite ends of said contact along a longitudinal axis of said contact.

16. (Previously Presented) The electrical socket of Claim 11, wherein said first and second base portions are formed separate from one another.

17. (Currently Amended) The electrical socket of Claim 11, wherein said first and second contact beams are oriented to convey the equal currents along first and second paths that are aligned in substantially parallel planes, said first and second paths being directed in opposite directions within said parallel planes.

18. (Withdrawn) The electrical socket of Claim 11, further comprising first and second sets of said first and second contact elements that are separately formed and configured to be separately joined to a circuit board.

19. (Previously Presented) The electrical socket of Claim 11, wherein said first and second base portions each have one of prongs and solder paddles to be joined to a circuit board.

20. (Withdrawn) The electrical socket of Claim 11, wherein said first and second contact elements each are U-shaped with upper and lower arms having outer ends that are configured to engage a circuit board and processor.